

SECRET**PRIORITY**

P 171541Z JUL68

FM NPIC WASHDC

TO RUCSAAA/SAC OFFUTT AFB OMAHA NEB

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RUWJDBA/100TH SRW DAVIS MONTHAN AFB ARIZ

RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD

RUEAIIA/CIA WASH DC

RUEOJFA/DIA ATTN: DIAXX-2

RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF

RUEFHQA/HQS USAF

BT

SECRET CITE NPIC 4218.

SAC FOR DIR, DOSR, DISD; 15TH AF FOR DI, DO; 100TH SRW FOR

CO, DCOI; HQ USAF FOR AFRDR

FROM NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER.

SUBJ: EVALUATION OF GLASS LAMP MISSION G-032

1. QUALITY SUMMARY: MISSION G-032 FLOWN ON 13 JULY 1968 PROVIDES IMAGE QUALITY SIMILAR TO THAT OF THE LAST MISSION EMPLOYING UNIT NUMBER B-18 (G-031). THE IMAGERY ON MANY FRAMES APPEARS DISTURBED, POSSIBLY DUE TO VEHICLE VIBRATION AND/OR MIRROR SETTLING. THIS ANOMALY WAS ALSO PRESENT ON THE PREVIOUS MISSION EMPLOYING THIS UNIT (B-18). THE GROUND RESOLUTION AND INTERPRETATION SUITABILITY RANGES FROM POOR TO GOOD. CLOUD COVER OBSCURES APPROXIMATELY TEN PERCENT OF THE ENTIRE MISSION.

2. MISSION DATA

A. THE STANDARD "B" CAMERA CONFIGURATION, UNIT NUMBER 18, WAS USED IN MISSION G-032 FLOWN ON 13 JULY 1968. THIS WAS AN OPERATIONAL MISSION USING THE U-2 AIRCRAFT. MODE 1 WAS USED FOR THE FIRST 20 FRAMES AND MODE 5 FOR THE REMAINDER OF THE MISSION.

B. FILM TYPE 3400 WAS USED THROUGHOUT THE MISSION. PROCESSING WAS ACCOMPLISHED BY NAV RECON TECH SUPPCEN. ALL MATERIAL WAS PROCESSED TO A 0.6 GAMMA AT A SPEED OF 2.32 (LOG E).

3. ORIGINAL NEGATIVE

A. EXPOSURE: THE FIRST PART OF THE MISSION IS SLIGHTLY UNDEREXPOSED; HOWEVER, AS SOLAR ELEVATION INCREASES THE EXPOSURE BECOMES ADEQUATE.

B. DENSITY AND CONTRAST ARE GENERALLY MEDIUM; HOWEVER, THE FIRST PART OF THE MISSION IS THIN DUE TO THE UNDEREXPOSURE OF THESE FRAMES.

C. IMAGED DEGRADATION

(1) 9R SIDE: A PATTERN OF MINUS DENSITY DOTS, LOCATED 1.6 INCHES FROM THE OUTBOARD EDGE, IS PRESENT ON THE FIRST 40 PERCENT OF THE MISSION. THESE DOTS ARE SPACED AT 3.2 INCH INTERVALS. A PATTERN OF PLUS DENSITY MARKS 0.1 INCH FROM THE OUTBOARD EDGE, IS PRESENT ON FRAMES 2036 TO 2043. THESE MARKS ARE SPACED 0.5 INCH APART. MINOR INBOARD ROLLER CHATTER IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.

(2) 9L SIDE: INBOARD ROLLER CHATTER IS PRESENT THROUGHOUT THE MISSION. A 12.0 INCH PLUS DENSITY STREAK, LOCATED 0.1 INCH FROM THE INBOARD EDGE OF THE FORMAT, INTERSECTS FRAMES 064 AND 065. A HAIR-LIKE MINUS DENSITY IMAGE LOCATED IN THE UPPER LEFT HAND CORNER OF THE FORMAT IS PRESENT THROUGHOUT THE MISSION.

(3) BOTH SIDES: OUTBOARD EDGE ROLLER CHATTER IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. A SMALL FOGGED AREA ADJACENT TO THE VERTICAL DOT INDICATOR IS PRESENT ON EVERY FRAME OF THE MISSION.

D. PHYSICAL DEGRADATIONS

(1) 9R SIDE: A FILM CREASE, PARALLEL TO THE MAJOR AXIS, IS PRESENT WITHIN THE FORMAT ON FRAMES 178 TO 184. A FEW EMULSION LIFTS ARE PRESENT ON FRAMES 1741 AND 1742. A MANUFACTURING SPLICE IS PRESENT IN FRAME 184. A HEAT SPLICE IS PRESENT IN FRAME 893 AND

OUT 65569

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BETWEEN FRAMES 299/300, 899/900, AND 1199/1200.

(2) 9L SIDE: A MANUFACTURING SPLICE IS PRESENT IN FRAME 1975. THERE IS A HEAT SPLICE IN FRAME 953 AND BETWEEN FRAMES 299/300, 599/600, 1199/1200, 1499/1500.

E. AUXILIARY DATA: THE COUNTER IN THE DATA CHAMBER SKIPPED A NUMBER ON FRAME 21. THE COUNTER AND THE TITLING AGREE UP TO AND INCLUDING FRAME 20. COUNTER NUMBER 22 CORRESPONDS TO TITLED FRAME 21 AND THIS BIAS CONTINUES TO THE END OF THE MISSION. ALL OTHER DATA RECORDING EQUIPMENT FUNCTIONED PROPERLY.

F. OTHER: ALL ODD NUMBERED FRAMES OF THE RIGHT SIDE ARE TITLED 31 JULY 1968 INSTEAD OF 13 JULY 1968. THE LAST TITLED FRAME OF BOTH SIDES IS 2044.

3. POSITIVES

A. THE PRINTING AND PROCESSING WERE GOOD WITH THE EXCEPTION OF THE FIRST ONE-THIRD OF THE MISSION. THE PHOTOINTERPRETERS CONSIDERED THE DENSITY OF THIS PORTION TO BE HEAVY FOR SUITABLE INTERPRETATION.

B. PART ONE OF THE LEFT SIDE WAS NOT RECEIVED AT THIS FACILITY; INSTEAD, TWO COPIES OF PART FOUR WERE RECEIVED.

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END OF MESSAGE